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October 25, 2001

Thomas S. Sanicola Modine Manufacturing Company 1500 DeKoven Avenue Racine, WI 53403

Well Abandonment Summary - Monitoring Wells MW-3 and MW-4, Modine

Manufacturing Company, Camdenton, Missouri

Dear Tom:

CH2M HILL is pleased to submit the Well Abandonment Summary – Monitoring Wells MW-3 and MW-4. Please find one copy of the technical memorandum enclosed.

Please call me at 314-421-0900 ext. 265 with any questions you may have. It has been a pleasure working with you.

Sincerely,

CH2M HILL

arre S. Bartin for Dan Price Daniel J. Price, R.G.

Project Manager

Bob King – Modine Manufacturing Company c:

Steven Poplawski - Bryan Cave LLP

Christine M. Kump – Missouri Department of Natural Resources

David Garrett - EPA Region VII

RCRA RECORDS CENTER

Modine Manufacturing Company – Camdenton, MO Well Abandonment Summary – Monitoring Wells MW-3 and MW-4

PREPARED FOR:

Missouri Department of Natural Resources

PREPARED BY:

Dan Price – CH2M HILL Anne Bartin – CH2M HILL

COPIES:

Tom Sanicola - Modine Manufacturing Company

Bob King - Modine Manufacturing Company

DATE:

October 25, 2001

CH2M HILL is submitting this Technical Memorandum on behalf of Modine Manufacturing Company (Modine). The purpose of the submittal is to summarize the work conducted in abandoning two monitoring wells, MW-3 and MW-4, during the week of October 1, 2001 at Modine's facility located in Camdenton, Missouri.

Introduction

During an investigation required by Missouri Department of Natural Resources (MDNR) in 1995, monitoring wells MW-3 and MW-4 were installed at the Modine site in Camdenton, Missouri. Monitoring well MW-3 was completed at a total depth of 167 feet below top of casing and monitoring well MW-4 was completed at a total depth of 158 feet below top of casing. Both wells were installed on the west side of the property. In February 1997, monitoring wells MW-3 and MW-4 were deepened at the request of the MDNR due to MW-4 being dry during two consecutive monitoring events in August and December 1996. Monitoring wells MW-3 and MW-4 were deepened to depths of approximately 175 feet below top of casing and 195 feet below top of casing, respectively. Monitoring well MW-3 was completed above grade and monitoring well MW-4 was completed flush with the surrounding ground surface.

In 2000, a remedial investigation (RI) of the former Hulett Lagoon was conducted (SECOR, April 2001). The RI consisted of the collection of additional soil samples at the former lagoon and installation of eight additional monitoring wells. The findings of the investigation indicated the presence of a zone of less permeability; an "inhibiting zone" that may in some areas create a separate "perched" groundwater zone and a deeper groundwater zone. When wells MW-3 and MW-4 were deepened in 1997, they may have bridged the less permeable "inhibiting zone" and allowed groundwater (when present) above this zone to migrate to the deeper zone.

Objective

The objective of the well abandonment activities was to properly abandon monitoring wells MW-3 and MW-4 to remove the potential for shallow groundwater migration through the less permeable "inhibiting zone."

Well Abandonment Activities

The well abandonment activities were conducted by drillers from Roberts Environmental Drilling, Inc. that hold Missouri Well Drillers and Pump Installers Permits, issued by the MDNR Division of Geology and Land Survey (DGLS). A representative from CH2M HILL provided oversite of the well abandonment activities. In addition, a representative from the DGLS was onsite to observe the well abandonment activities. Abandonment of monitoring wells MW-3 and MW-4 was conducted in accordance with Missouri Well Construction Rules, 10 CSR 23-4 and is detailed in the following paragraphs.

Monitoring Well 3

Well abandonment activities began with the removal of the above ground well protector from MW-3. The 4-inch open bedrock hole portion of the well was grouted with a high solids bentonite grout from total depth to a depth at the base of the steel casing, which extended to a depth of 63 feet below ground surface (bgs). After the grout was allowed to cure for a minimum of 24 hours, the steel casing was overdrilled to a refusal depth of 12 feet bgs using an eight ¼-inch inside diameter hollow-stem auger. CH2M HILL subcontractors made multiple unsuccessful attempts to remove the steel casing from the hole. As a result, the top three feet of steel casing was cut off in accordance with Missouri Well Construction Rules. The MDNR project manager approved the well abandonment procedural change and the representative from DGLS onsite concurred with the decision. The remaining steel casing was left in place and the 12 ½-inch diameter auger hole and casing was grouted with high solids bentonite grout from the cased depth to the surface using a tremie pipe. After the grout was allowed to settle, soil was placed in the upper two feet of the borehole and compacted to bring the surface back to grade.

Soil cuttings retrieved during abandonment activities were stockpiled on plastic sheeting, screened using a photoionization detector (PID), and covered with a tarp. PID readings indicated the soil was not impacted and, therefore, the soil cuttings were used to restore the site to its original condition.

Monitoring Well 4

Well abandonment activities began with removal of the flush mount well protector from MW-4. The 4-inch open bedrock hole portion of the well was grouted with a high solids bentonite grout from total depth to a depth at the base of the steel casing. The steel casing extended to a depth of 43 feet bgs in MW-4. After the grout was allowed to cure for a minimum of 24 hours, the steel casing was overdrilled to a refusal depth of 20 feet bgs using an eight ¼-inch inside diameter hollow-stem auger. CH2M HILL subcontractors made multiple unsuccessful attempts to remove the steel casing from the hole. As a result, the top three feet of steel casing was cut off in accordance with Missouri Well Construction Rules.

The MDNR project manager approved the well abandonment procedural change and the representative from DGLS onsite concurred with the decision. The remaining steel casing was left in place and the 12 ½-inch diameter auger hole and casing was grouted with high solids bentonite grout from the cased depth to the surface using a tremie pipe. After the borehole was grouted, concrete was placed in the upper two feet of the borehole and compacted to bring the surface back to grade. The surface around MW-4 was further repaired with cold patch asphalt.

Soil cuttings retrieved during abandonment activities at MW-4 were screened with the PID meter and placed in three 55-gallon drums for future characterization and placement with the soil excavated as part of the Corrective Action work currently being conducted on-site. PID readings indicated the soil was not impacted.

Documentation

Field documentation of well abandonment activities was recorded in a logbook designated for the project. Photographs were taken during the well abandonment for documentation purposes and are provided in Attachment 1.

The drilling subcontractor has submitted an Abandonment Registration Record for each well to the MDNR Division of Geology and Land Survey (DGLS), in accordance with Missouri Well Construction Rules which requires submittal within 60 days of the completion of plugging activities. A copy of the reports is provided in Attachment 2.

Attachment 1 – Photographs



Removal of above ground well protector from monitoring well MW-3 (facing east).



Overdrilling monitoring well MW-3 using an 8 $^{1}\!/_{4}$ -inch inside diameter hollow-stem auger.



Steel casing of monitoring well MW-3 cut three feet below ground surface.



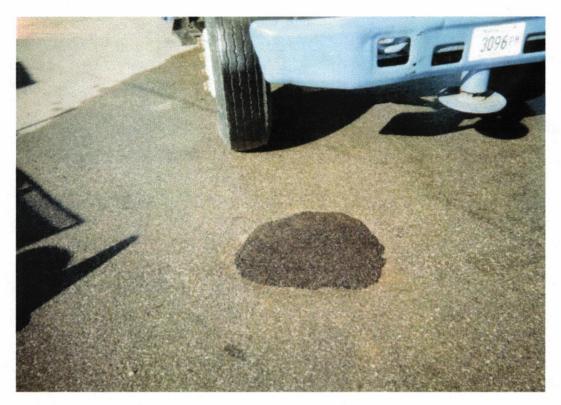
Grouting monitoring well MW-3 with high solids bentonite slurry using tremie pipe.



Overdrilling monitoring well MW-4 using an 8 $^{1}\!/_{4}$ -inch inside diameter hollow-stem auger.



Steel casing of monitoring well MW-4 cut three feet below ground surface.



Surface restoration using cold asphalt patch at former monitoring well MW-4.



MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY (573) 368-2165

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	DAN PRICE (CH2M HILL) DOZHLOD-M X Yam (1 BULLO) DOZZILWPM 10/1/01		1111	A show recommend our		X Fran	11/18.	1/an			10/1/01

DISTRIBUTION: WHITE/DIVISION CANARY/CONTRACTOR MINK/CWINER
MAIL WHITE COPY TO: DEPARTMENT OF NATURAL RESOURCES, P.O. BOX 250, ROLLA, MO 85402
ENCLOSE NO FEE WITH REGISTRATION RECORD WITHIN 80 DAYS AFTER WELL COMPLETION



X TAN Price MO 780-1603 (4-99)

CHZM HILL

MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY (573) 368-2165

ABANDONMENT

OFFICE	USE ONLY		DATE RECEIVED	
REF. NO.	28	6843	3	
C.R. NO.			CHECK NO.	
STATE WELL	NUMBER		TRANSMITTAL NO.	
ENTERED Ph 1	Ph 2	Ph 3	APPROVED BY	ROUTE /

REGISTR	ATION REC	ORD		Ph 1	Ph 2	Ph	3				1	/
NFORMATION SUPPLI	ED BY WELL	OR PUM	PINSTAL	LATION COL	NTRACTOR							
OWNER NAME	×					TELEPH					(IF APPLICABLE	
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OWNER ADDRESS			7-11	CITY			STA		ZIP CODE	_		
170 = 000 A	De			Carri	don ton			17 .	50 CC	<u> </u>	WELL CERTIFIC	CATION NUMBER
DDRESS OF WELL SITE (IF DIFFER	ENT THAN ABOVE)			CITY			STA	ATE	ZIP CODE			
5000												
SITE NAME		WELL NU	MBER		ERIFIED BY OWN	EH						DATE
Sara		#	4	SIGNATURE (WE	ELL OWNER)	X						
SKETCH THE LOCATION TO THE	WELL INCLUDING MIL	EAGE ON A	LL ROADS TR	AVELED FROM N	EAREST TOWNS	LOCAT	ION OF V	WELL			AREA	1
OR HIGHWAYS							38_	. 0	. 35	· 	5, 5, 1	
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						LONG	60	_	<u> 15 </u>	<u>50_"</u>	COUNTY	HUNCE!!
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			AB	ANDONMEN	IT INFORM	ATION	7.20	1 3 cm	lict bat	١.		
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HAND DUG	☐ IRRIGATION				, , , , , , , , , , , , , , , , , , , ,				,	45	\ \ -	12.7
DOMESTIC	SOIL BORING/GE			DEPTH OF THE	WELL	LENGTH	OF CAS	SING	CASING D			E DIAMETER
COLD COLD C Decide C	MONITORING	OPHOBE		195	,	CL. ICI.	1	43			(IF KNOWN	1) —
MULTI-FAMILY	•	D. 17071 75	ST UOLF	PUMP REMOVE	D EDOM WELLS	WASTH		1	FF THREE FE		PE OF CASING	
PUBLIC WATER SUPPLY	MINERAL EXPLO	HATORY TE	SI HOLE	1 Vec				SURFAC			PLASTIC 0	CONCRETE
HEAT PUMP	OTHER		-	DNO N	4\	K YES		RE	MOVED	Ø	STEEL 0	OTHER
GROUT INSTALLATION METHOD	GROUT MATERIAL	USED	****						WATER MIXE		MBER OF BAGS	
GRAVITY	NEAT CEMENT	BENTONITE				PER BA	G OF CE	MENTOF	BENTONITE	GH	OUT USED	14
TREMIE	HI-EARLY	SLUREN	GRAI	NULAR DOT	HER 30%						UNDS OF GROU	л • Н
EXCAVATION	TYPE 1	CHIPS	PELL	ETS High	Solids		1-	1-15		PE	R BAG 5	0 [#]
TYPE OF FILL MATERIAL USED		1	MOUNT OF FI	LL MATERIAL USI	ED		CIRCL		DEPTH TO TO		MATERIAL	
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SAND OTHER	1471				1				OR THE CHLO	DINATION		NAS PLUGGED
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WAS THE WELL ABANDONED BE	ECAUSE OF HOOKING	UP TO							OUNDS OF C	-	10/3	5/11
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SIGNATURE (FRIMARY CONTRA	ACTOR)		PERMIT NU	MBER	SIGNATURE	OTOARTY	R)	_		PERMIT N	UMBER	DATE
X Day Price	(CHZM H	ALC:	4600	ı	X Am (0	1	0038	MAWIE	10/11/
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